

Anti-NGF / bNGF Reference Antibody (Frunevetmab)

Catalog # APR11508

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	P01138
Reactivity	Human
Clonality	Monoclonal
Isotype	Felis catus IgG
Calculated MW	26959

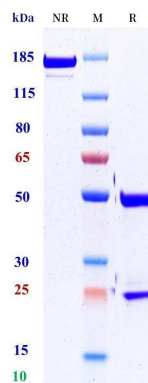
Additional Information

Target/Specificity	NGF / bNGF
Expression system	CHO

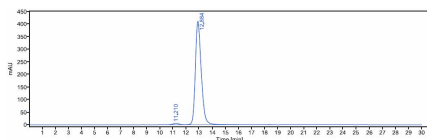
Protein Information

Name	NGF
Synonyms	NGFB
Function	Nerve growth factor is important for the development and maintenance of the sympathetic and sensory nervous systems (PubMed:14976160, PubMed:20978020). Extracellular ligand for the NTRK1 and NGFR receptors, activates cellular signaling cascades to regulate neuronal proliferation, differentiation and survival (Probable) (PubMed:20978020). The immature NGF precursor (proNGF) functions as a ligand for the heterodimeric receptor formed by SORCS2 and NGFR, and activates cellular signaling cascades that lead to inactivation of RAC1 and/or RAC2, reorganization of the actin cytoskeleton and neuronal growth cone collapse. In contrast to mature NGF, the precursor form (proNGF) promotes neuronal apoptosis (in vitro) (By similarity). Inhibits metalloproteinase-dependent proteolysis of platelet glycoprotein VI (PubMed:20164177). Binds lysophosphatidylinositol and lysophosphatidylserine between the two chains of the homodimer. The lipid-bound form promotes histamine release from mast cells, contrary to the lipid-free form (By similarity).
Cellular Location	Secreted. Endosome lumen {ECO:0000250 UniProtKB:P01139}. Note=ProNGF is endocytosed after binding to the cell surface receptor formed by SORT1 and NGFR {ECO:0000250 UniProtKB:P01139}

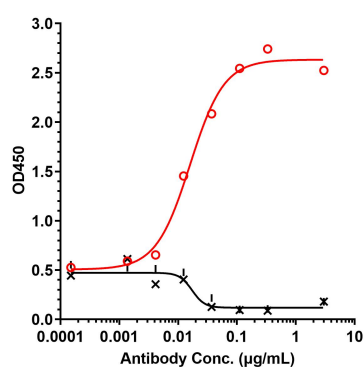
Images



Anti-NGF / bNGF Reference Antibody (Frunevetmab) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.



The purity of Anti-NGF / bNGF Reference Antibody (Frunevetmab) is 98.7%, determined by SEC-HPLC.



Immobilized Recombinant Human Beta-NGF Protein, HPLC-verified, It's target at 2 µg/mL can bind Frunevetmab, EC50= 0.01596 µg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.